

***LineUp With Math™* Alignment**
New York SED Math Standards

Problem Solving Strand

Students will solve problems that arise in mathematics and in other contexts.

Standard	<i>LineUp With Math™</i> Activities
6.PS.7 Represent problem situations verbally, numerically, algebraically, and/or graphically	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Students will apply and adapt a variety of appropriate strategies to solve problems.

6.PS.13 Model problems with pictures/diagrams or physical objects	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
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Communication Strand

Students will communicate their mathematical thinking coherently and clearly to peers, teachers, and others.

Standard	<i>LineUp With Math™</i> Activities
6.CM.4 Share organized mathematical ideas through the manipulation of objects, numerical tables, drawings, pictures, charts, graphs, tables, diagrams, models, and symbols in written and verbal form	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Connections Strand

Students will recognize and apply mathematics in contexts outside of mathematics.

Standard	<i>LineUp With Math™</i> Activities
6.CN.7 Apply mathematics to problem situations that develop outside of mathematics	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
6.CN.8 Investigate the presence of mathematics in careers and areas of interest.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Representation Strand

Students will create and use representations to organize, record, and communicate mathematical ideas.

Standard	<i>LineUp With Math™</i> Activities
6.R.1 Use physical objects, drawings, charts,	--Use an interactive simulator plus calculation worksheets

tables, graphs, symbols, equations, or objects created using technology as representations	to model and resolve air traffic control conflicts.
Students will select, apply, and translate among mathematical representations to solve problems.	
Standard 6.R.5 Use representations to explore problem situations	<i>LineUp With Math™</i> Activities --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
Students will use representations to model and interpret physical, social, and mathematical phenomena.	
Standard 6.R.7 Use mathematics to show and understand physical phenomena (e.g., determine the perimeter of a bulletin board)	<i>LineUp With Math™</i> Activities --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.